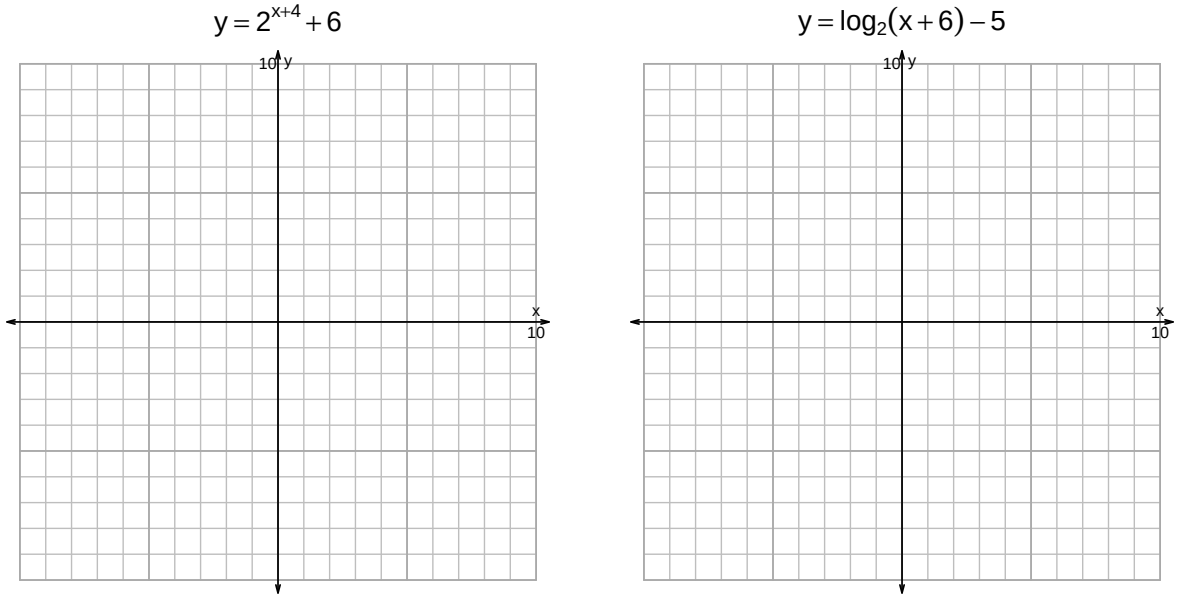
Name: Date:

s18quiz: EXP LOG (Practice v125)

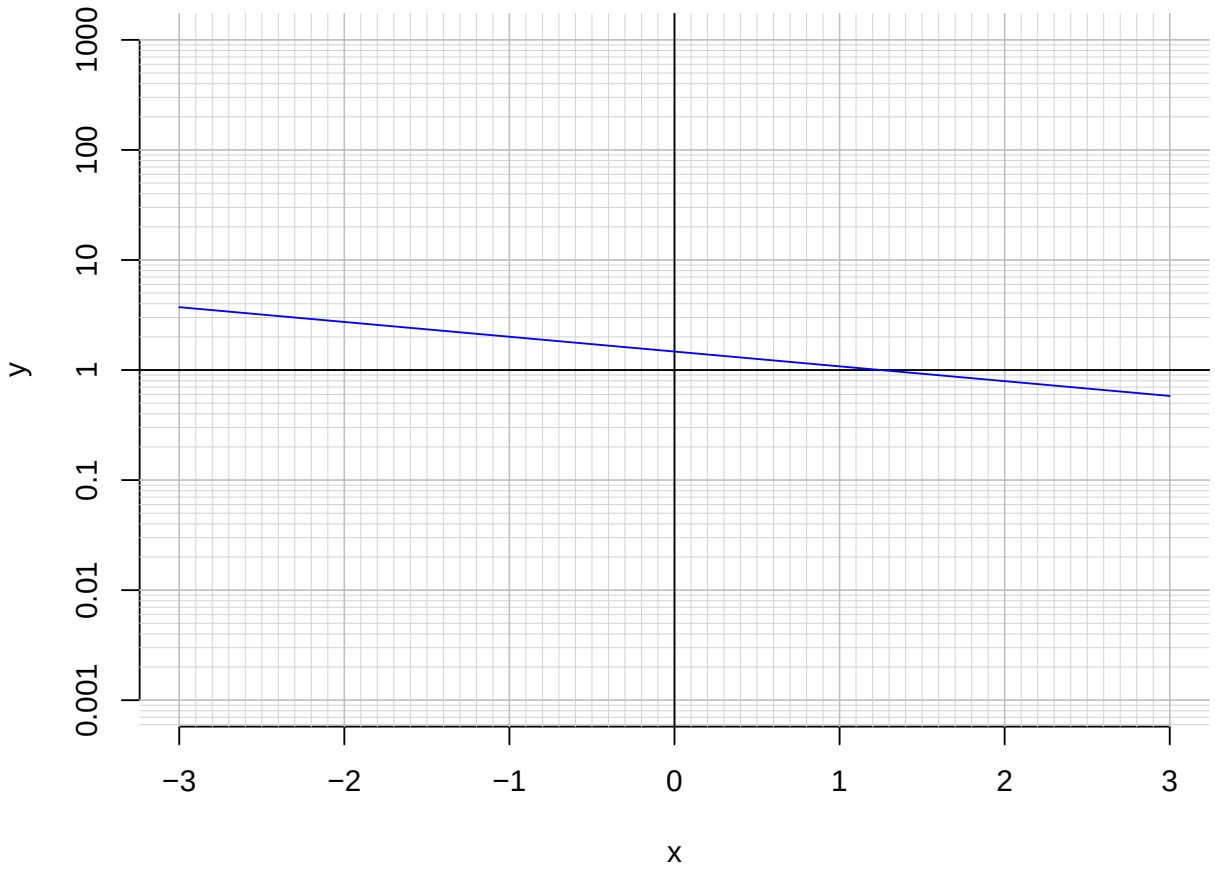
1. Graph $y = 2^{x+4} + 6$ and $y = \log_2(x + 6) - 5$ on the grids below. Also, draw any asymptotes with dotted lines.



2. Write (but do not evaluate) the solution to the equation below by writing a logarithmic expression.

$$-13 = \left(\frac{-3}{5}\right) \cdot 10^{-7t/4}$$

3. An exponential function $f(x) = 1.47 \cdot e^{-0.31x}$ is graphed below on a semi-log plot.



a. Using the plot above, evaluate $f(2.9)$.

b. Express $f^{-1}(x)$, the inverse of f.

c. Using the plot above, evaluate $f^{-1}(3)$.